

Curriculum Vitae

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Education

• Academic Degrees

PhD

Doctor of Philosophy in Pharmaceutical Sciences “Modulation of cell junctional permeability by different agents in a model of encephalopathy in rats” (Jan, 2021) - Faculty of Pharmacy - Cairo University

Masters

Master's degree in Pharmaceutical sciences “Modulation of intestinal gut barrier permeability by different agents in a model of rat septicemia” (Jan, 2017) – Faculty of Pharmacy - Cairo University

Bachelor

Bachelor of Pharmaceutical sciences – Faculty of Pharmacy – Cairo University

Areas of strength

- Solid background of pharmacology, toxicology, physiology and general biology.
- Satisfactory level of laboratory skills and research management.
- Remarkable teaching and presentation skills with certified courses in relevant areas.
- Strong communication and presentation skills.
- Able to coordinate multiple projects and meet deadlines pressure.
- Driven to learn and apply new ideas.

Computer skills

- Confident MS office and internet applications user
- Graphpad prism for statistical analysis
- Google Apps (Forms – Sites – Drive, etc)
- Photoshop, Chemdraw and Biorender software for research graphical illustrations

Language skills

- Arabic (mother tongue)
- English (Fluent both written and spoken; TOEFL-certified)
- French (Fluent both written and spoken; niveau de DELF B2)

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Teaching skills

- Involvement in teaching several courses for mainstream, clinical, pharmD, clinical pharmD students, in addition to many postgraduate curricula, starting from giving practical sessions and labs (2011-2021), moving to lectures (2021-now).
- Involvement in teaching 2 courses of the Clinical Pharmacy department for Misr International University (MIU) undergraduates; namely, First Aid (PHP331; PHP413) and Pharmacotherapy of Infectious Diseases (PHP441), during Summer and Fall semesters, 2023.
- The following are examples of the courses taught at the Faculty of Pharmacy, Cairo University:

	Course Title
Undergraduate Courses	303 Pharmacology I
	304 Pharmacology II
	305 Pharmacology III
	306 Biostatistics and Biological Standardization of Drugs
	307 Toxicology
	3453 Pharmacology II
	MD305 Physiology and Pathophysiology
Undergraduate Courses (Clinical Program)	PO 701 Pharmacology1
	PO 802 Pharmacology-2
	PO 904 Toxicology and Forensic Chemistry
	PO 906 Clinical Pharmacology
	PME5 Biological Standardization
	MDC305 Physiology and Pathophysiology
Postgraduate Courses	2301 Pharmacometrics
	2302 Toxicometrics
	2308 Pharmacology of natural products
	1317 Research Project
	1310 Screening of Drugs and Biostatistics
	1319 Pharmacotherapy I (Pharmacovigilance diploma)
	1324 Pharmacotherapy II (Pharmacovigilance diploma)
	1320 System-Based Adverse Drug Reactions-I (Pharmacovigilance diploma)
	1325 System-Based Adverse Drug Reactions-II (Pharmacovigilance diploma)

Research skills

- Excellent murine handling and surgical skills to simulate different disease models e.g. common bile duct ligation and cecal ligation/puncture.
- Performing different procedures that aid data presentation and interpretation e.g. transcardiac perfusion and estrous cycle tracking.
- Performing complete statistical analysis for the corresponding research papers.
- Performing biochemical methods of estimation e.g. ELISA and colourimetric analysis.

Publications

ORCID 0000-0001-9359-1636

- Ahmedy, O. A., Salem, H. H., Mohamed, Y. S., & **Zaky, D. A.** (2025). Unleashing the cardioprotective potential of berberine against doxorubicin cardiotoxicity: Innovative exploitation of the peculiar antipyroptotic/antioxidant/anti-inflammatory capacity via modulation of inflammasome/caspase-1/interleukin pathway in rats. *International Immunopharmacology*, 159, 114964. <https://doi.org/10.1016/J.INTIMP.2025.114964>
- Roshdy, M., **Zaky, D. A.**, Abbas, S. S., & Abdallah, D. M. (2024). Niacin, an innovative protein kinase-C-dependent endoplasmic reticulum stress reticence in murine Parkinson's disease. *Life Sciences*, 351. <https://doi.org/10.1016/J.LFS.2024.122865>
- Zaky, D. A.**, Abdallah, D. M., & El-Abhar, H. S. (2023). Intranasal Exendin-4 modifies necroptosis-mediated innate immune response to combat septic encephalopathy in rats: Role of mTORC1 in immunogenic and tolerogenic cell demise. *European Journal of Pharmacology*, 961, 176191. <https://doi.org/10.1016/J.EJPHAR.2023.176191>
- Zaky, D. A.**, Abouelfadl, D. M., Nassar, N. N., Abdallah, D. M., & Al-Shorbagy, M. Y. (2020). The paradox of dipeptidyl peptidase IV inhibition in enterocytic differentiation and epithelial-mesenchymal transition in rat cholestatic sepsis. *Toxicology and Applied Pharmacology*, 394. <https://doi.org/10.1016/j.taap.2020.114956>
- Zaky, D. A.**, Eldehna, W. M., El Kerdawy, A. M., Abdallah, D. M., El Abhar, H. S., & Wadie, W. (2021). Recombinant human growth hormone improves the immune status of rats with septic encephalopathy: The role of VEGFR2 in the prevalence of endoplasmic reticulum stress repair module. *International Immunopharmacology*, 101(Pt B), 108370. <https://doi.org/10.1016/j.intimp.2021.108370>
- Zaky, D. A.**, Mehny, K. A., Abdelrahman, S. S., El-Yamany, M. F., & Kamel, A. S. (2024). Flibanserine conquers murine depressive pseudodementia by amending HPA axis, maladaptive inflammation and AKT/GSK/STAT/BDNF trajectory: Center-staging of the serotonergic/adrenergic circuitry. *European Journal of Pharmacology*, 980. <https://doi.org/10.1016/J.EJPHAR.2024.176869>
- Zaky, D. A.**, Sayed, R. H., & Mohamed, Y. S. (2023). Liraglutide limits the immunogenic cell death-mediated ROS propagation and PI3K/AKT inactivation after doxorubicin-induced gonadotoxicity in rats: Involvement of the canonical Hedgehog trajectory. *International Immunopharmacology*, 119, 110212. <https://doi.org/10.1016/j.intimp.2023.110212>
- Zaky, D. A.**, Wadie, W., Eldehna, W. M., El Kerdawy, A. M., Abdallah, D. M., & El Abhar, H. S. (2020). Modulation of endoplasmic reticulum stress response in gut-origin encephalopathy: Impact of vascular endothelial growth factor receptor-2 manipulation. *Life Sciences*, 252, 117654. <https://doi.org/10.1016/j.lfs.2020.117654>

Other Scientific and organisational Activities

- Scientific reviewer for several international journals, including but not limited to, Molecular Neurobiology, BMI medicine, Future Journal of Pharmaceutical Sciences, Cell Biology International, Lipids in Health and Disease, BMC Cancer and Medical Oncology.
- Conference presentation at Experimental Biology meeting, San Diego, California, USA, April 2016.
https://faseb.onlinelibrary.wiley.com/doi/abs/10.1096/fasebj.30.1_supplement.lb553
- Poster presentation at Clinical Dermatology conference, Barcelona, Spain, December 2019.
<https://www.primescholars.com/conference-abstracts-files/novel-gut-barrier-modulatory-effect-of-vildagliptin.pdf>
- Contributing to the principal organization of the chemicals input for research and teaching purposes in the departmental chemical committee since 2011.
- Participated in a research collaboration between Pharmacology and Pharmaceutical chemistry departments that yielded two internationally-published research papers.
- Occupied the position of Head of Quality Coordinators at the department of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University, starting from April, 2022 till present.
- Contributing to the academic advisory board of the Pharm-D students, starting from September, 2020 till present.

Courses and Workshops

- Digital transformation at the Faculty and Leadership Development Center.
- Training of the CU staff members at the Faculty and Leadership Development Center.
- “Artificial Intelligence (AI) Revolution” workshop at the Faculty of Pharmacy, Cairo University.
- “Using AI to chat with your research article” workshop at the Faculty of Pharmacy, Cairo University.
- “Quality criteria in labs and inventories” workshop at the Faculty of Pharmacy, Cairo University.
- “Academic advising system in FOPCU” workshop at the Faculty of Pharmacy, Cairo University.
- “First aid and occupational crises management” workshop at the Faculty of Pharmacy, Cairo University.
- “NAQAAE requirements for quality assurance and validation of course specifications and reports 2025” workshop at the Faculty of Pharmacy, Cairo University.